Amendments to the Claims:

1-3.   (canceled)

4.   (currently amended) ~~The method as recited in Claim 1, further comprising the step of:~~

A method for providing self-provisioning of VoIP telephony service to a subscriber of the VoIP telephony service, the method comprising the computer-implemented steps of:

receiving a first notify command from ~~the~~ an un-provisioned residential gateway that is associated with the subscriber, wherein the first notify command is sent in response to a telephone receiver connected to the residential gateway going off-hook; ~~and~~

instructing the residential gateway to collect a provisioning access number;

instructing, via a call signaling command, the residential gateway to collect a subscriber numeric identity that uniquely identifies the subscriber;

instructing, via a call signaling command, the residential gateway to collect a Personal Identification Number (PIN) information that is associated with the subscriber;

receiving and verifying the subscriber numeric identity and Personal Identification Number (PIN) information;

assigning an IP address that is associated with one or more Media Gateway Control Protocol (MGCP) messages that are sent by the residential gateway as a residential gateway IP address for the residential gateway; and

using the residential gateway IP address to provision the residential gateway that is associated with the subscriber.

5.   (original) The method as recited in Claim 4, wherein instructing the residential

gateway to collect a provisioning access number further comprises sending a MGCP

notification request with a first digit map associated with the provisioning access

number.

6.   (currently amended) The method as recited in Claim [[1]]8, further comprising the

steps of:

receiving and storing a provisioning access number from the residential gateway; and

wherein instructing the residential gateway to collect a subscriber numeric identity

        includes instructing the residential gateway to create a first VoIP connection

        between the residential gateway and an announcement server for sending a

        first VoIP message from the announcement server to the subscriber via the

        residential gateway in order to collect the subscriber numeric identity.

7.   (original) The method as recited in Claim 6, further comprising the step of:

receiving and storing the subscriber numeric identity from the residential gateway; and

instructing the residential gateway to delete the first VoIP connection.

8.   (currently amended) The method as recited in Claim 1, further comprising the step of:

A method for providing self-provisioning of VoIP telephony service to a subscriber of

the VoIP telephony service, the method comprising the computer-implemented steps

of:

instructing, via a call signaling command, the residential gateway to collect a

subscriber numeric identity that uniquely identifies the subscriber;

instructing, via a call signaling command, the residential gateway to collect a Personal

Identification Number (PIN) information that is associated with the subscriber;

wherein instructing the residential gateway to collect a Personal Identification Number

includes

after the residential gateway deletes a first VoIP connection, instructing the

residential gateway to create a second VoIP connection between the

residential gateway and an announcement server for sending a second

VoIP message from the announcement server to the subscriber via the

residential gateway in order to collect the Personal Identification

Number (PIN) information from the subscriber;

receiving and verifying the subscriber numeric identity and Personal Identification

Number (PIN) information;

assigning an IP address that is associated with one or more Media Gateway Control

Protocol (MGCP) messages that are sent by the residential gateway as a

residential gateway IP address for the residential gateway; and

using the residential gateway IP address to provision the residential gateway that is

associated with the subscriber.

9.   (original) The method as recited in Claim 8, further comprising the step of:

receiving and storing the Personal Identification Number (PIN) information; and

instructing the residential gateway to delete the second VoIP connection.

10-20. (canceled)

21.   (currently amended) ~~The method as recited in Claim 1,~~ <u>A method for providing self-provisioning of VoIP telephony service to a subscriber of the VoIP telephony service, the method comprising the computer-implemented steps of:</u>

<u>instructing, via a call signaling command, the residential gateway to collect a subscriber numeric identity that uniquely identifies the subscriber;</u>

<u>instructing, via a call signaling command, the residential gateway to collect a Personal Identification Number (PIN) information that is associated with the subscriber;</u>

<u>receiving and verifying the subscriber numeric identity and Personal Identification Number (PIN) information;</u>

<u>assigning an IP address that is associated with one or more Media Gateway Control Protocol (MGCP) messages that are sent by the residential gateway as a residential gateway IP address for the residential gateway; and</u>

<u>using the residential gateway IP address to provision the residential gateway that is associated with the subscriber;</u>

wherein ~~the step of~~ using the residential gateway IP address to provision the residential gateway further comprises ~~the step of~~ rebooting the residential gateway remotely by a self-provisioning system call agent of a self-provisioning system that is associated with a provider of the VoIP telephony service.

22.   (currently amended) ~~The method as recited in Claim 1,~~ A method for providing self-provisioning of VoIP telephony service to a subscriber of the VoIP telephony service, the method comprising the computer-implemented steps of:

~~wherein the~~ a residential gateway ~~requests~~ requesting a location of one or more Domain Name System (DNS) server, a limited-access IP address, and a Media Gateway Control Protocol (MGCP) endpoint name of a self-provisioning system call agent of a self-provisioning system that is associated with the provider of the VoIP telephony service;

instructing, via a call signaling command, the residential gateway to collect a subscriber numeric identity that uniquely identifies the subscriber;

instructing, via a call signaling command, the residential gateway to collect a Personal Identification Number (PIN) information that is associated with the subscriber;

receiving and verifying the subscriber numeric identity and Personal Identification Number (PIN) information;

assigning an IP address that is associated with one or more Media Gateway Control Protocol (MGCP) messages that are sent by the residential gateway as a residential gateway IP address for the residential gateway; and

using the residential gateway IP address to provision the residential gateway that is associated with the subscriber.

23.   (currently amended) ~~The method as recited in Claim 1, further comprising~~ A method for providing self-provisioning of VoIP telephony service to a subscriber of the VoIP telephony service, the method comprising the computer-implemented steps of:

using a subscriber registration center that is associated with a provider of the VoIP

telephony service wherein the subscriber registration center performs the steps

of:

offering ~~to the residential~~ to a residential gateway a limited access IP address;

offering to the residential gateway a location of one or more Domain Name

System (DNS) servers;

offering to the residential gateway a Media Gateway Control Protocol (MGCP)

endpoint name of a self-provisioning system call agent of a self-

provisioning system that is associated with the provider of the VoIP

telephony service;

instructing, via a call signaling command, the residential gateway to collect a

subscriber numeric identity that uniquely identifies the subscriber;

instructing, via a call signaling command, the residential gateway to collect a Personal

Identification Number (PIN) information that is associated with the subscriber;

receiving and verifying the subscriber numeric identity and Personal Identification

Number (PIN) information;

assigning an IP address that is associated with one or more Media Gateway Control

Protocol (MGCP) messages that are sent by the residential gateway as a

residential gateway IP address for the residential gateway; and

using the residential gateway IP address to provision the residential gateway that is

associated with the subscriber.

24.   (original) The method as recited in Claim 23, wherein the step of offering to the residential gateway a limited access IP address is performed through a Dynamic Host Configuration Protocol (DHCP) server.

25.   (original) The method as recited in Claim 23, wherein the step of offering to the residential gateway a location of one or more Domain Name System (DNS) servers is performed through a Dynamic Host Configuration Protocol (DHCP) server.

26.   (original) The method as recited in Claim 23, wherein the step of offering to the residential gateway a Media Gateway Control Protocol (MGCP) endpoint name of a self-provisioning system call agent of a self-provisioning system that is associated with the provider of the VoIP telephony service is performed through a Dynamic Host Configuration Protocol (DHCP) server.

27.   (currently amended) The method as recited in Claim 23, wherein [[the]] a protocol server directs a provisioned residential gateway to a standard call agent that is associated with the provider of the VoIP telephony service to enable VoIP calls and services.

28.   (currently amended) A method for providing self-provisioning of VoIP telephony to a subscriber of a VoIP telephony service, the method comprising the computer-implemented steps of:

receiving a first notify command from a residential gateway that is associated with the subscriber and that has not been provisioned, wherein the first notify command

is sent in response to a lifting of a telephone receiver connected to the

residential gateway;

after receiving the first notify command from the residential gateway, instructing the

residential gateway to collect a provisioning access number;

receiving a second notify command from the residential gateway, wherein the second

notify command is sent with the provisioning access number;

receiving and storing the provisioning access number;

after receiving the second notify command, instructing the residential gateway to

create a first VoIP connection between the residential gateway and an

announcement server for sending a first VoIP message from the announcement

server to the subscriber in order to collect a subscriber numeric identity that

uniquely identifies the subscriber;

instructing the residential gateway to collect the subscriber numeric identity that is

allocated to the subscriber;

receiving a third notify command from the residential gateway, wherein the third

notify command is sent with the subscriber numeric identity;

receiving and storing the subscriber numeric identity;

after receiving the third notify command from the residential gateway, instructing the

residential gateway to delete the first VoIP connection;

after the residential gateway deletes the first VoIP connection, instructing the

residential gateway to create a second VoIP connection between the residential

gateway and the announcement server for sending a second VoIP message

from the announcement server to the subscriber in order to collect a Personal

Identification Number (PIN) information from the subscriber;

instructing the residential gateway to collect the Personal Identification Number (PIN)

information that is associated with the subscriber;

receiving a fourth notify command from the residential gateway, wherein the fourth

notify command is sent with the Personal Identification Number (PIN)

information;

receiving and storing the Personal Identification Number (PIN) information;

after receiving the fourth notify command from the residential gateway, instructing the

residential gateway to delete the second VoIP connection;

verifying the subscriber numeric identity and PIN information;

using a source IP address that is associated with one or more Media Gateway Control

Protocol (MGCP) messages that are sent by the residential gateway as a

residential gateway IP address for the residential gateway; and

using the residential gateway IP address to provision the residential gateway by

performing the steps of:

enabling a Dynamic Host Configuration Protocol-centric (DHCP-centric)

protocol server to query a Dynamic Host Configuration Protocol

(DHCP) server for a mapping from the residential gateway IP address

to a MAC address associated with the residential gateway;

enabling the DHCP-centric protocol server to configure the DHCP server to

offer a long-term IP address to the residential gateway; and

enabling the DHCP-centric protocol server to configure the DHCP server to

associate a Domain Name System (DNS) hostname that is based on the

subscriber numeric identity with the MAC address of the residential

gateway.

29. (currently amended) A computer-readable medium carrying one or more sequences of instructions for providing self-provisioning of VoIP telephony to a subscriber of VoIP telephony service, which instructions, when executed by one or more processors, cause the one or more processors to carry out the steps of:

instructing, via a call signaling command, an un-provisioned residential gateway that is associated with the subscriber to collect an subscriber numeric identity that uniquely identifies the subscriber;

instructing, via a call signaling command, the residential gateway to collect a Personal Identification Number (PIN) information that is associated with the subscriber;

receiving and verifying the subscriber numeric identity and Personal Identification Number (PIN) information;

assigning an IP address that is associated with one or more Media Gateway Control Protocol (MGCP) messages that are sent by the residential gateway as a residential gateway IP address for the residential gateway; [[and]]

using the residential gateway IP address to provision the residential gateway that is associated with the subscriber; and

wherein using the residential gateway IP address to provision the residential gateway further comprises rebooting the residential gateway remotely by a self-provisioning system call agent of a self-provisioning system that is associated with a provider of the VoIP telephony service.

30. (currently amended) An apparatus for providing self-provisioning of VoIP telephony to a subscriber of a VoIP telephony service, which apparatus, comprising:

means for instructing, via a call signaling command, an un-provisioned residential

gateway that is associated with the subscriber to collect an subscriber numeric

identity that uniquely identifies the subscriber;

means for instructing, via a call signaling command, the residential gateway to collect

a Personal Identification Number (PIN) information that is associated with the

subscriber;

means for receiving and verifying the subscriber numeric identity and Personal

Identification Number (PIN) information;

means for assigning an IP address that is associated with one or more Media Gateway

Control Protocol (MGCP) messages that are sent by the residential gateway as

a residential gateway IP address for the residential gateway; [[and]]

means for using the residential gateway IP address to provision the residential gateway

that is associated with the subscriber; and

wherein the means for using the residential gateway IP address to provision the

residential gateway further comprises means for rebooting the residential

gateway remotely by a self-provisioning system call agent of a self-

provisioning system that is associated with a provider of the VoIP telephony

service.

31.   (currently amended) An apparatus for providing self-provisioning of VoIP telephony

to a subscriber of a VoIP telephony service, which apparatus, comprising:

a network interface that is coupled to the data network for receiving one or more

packet flows therefrom;

a processor;

one or more stored sequences of instructions which, when executed by the processor,

cause the processor to carry out the steps of:

instructing, via a call signaling command, an un-provisioned residential gateway that

is associated with the subscriber to collect a subscriber numeric identity of the

subscriber;

instructing, via a call signaling command, the residential gateway to collect a Personal

Identification Number (PIN) information that is associated with the subscriber;

receiving and verifying the subscriber numeric identity and Personal Identification

Number (PIN) information;

assigning an IP address that is associated with one or more Media Gateway Control

Protocol (MGCP) messages that are sent by the residential gateway as a

residential gateway IP address for the residential gateway; [[and]]

using the residential gateway IP address to provision the residential gateway that is

associated with the subscriber; and

wherein using the residential gateway IP address to provision the residential gateway

further comprises rebooting the residential gateway remotely by a self-

provisioning system call agent of a self-provisioning system that is associated

with a provider of the VoIP telephony service.